

CLAIMS

1. A device for body fluid purification, comprising a container having an inlet and an outlet for a fluid and a means for preventing an adsorbent from flowing out of the container and an adsorbent charged in the container, the adsorbent comprising a spherical hydrogel, the spherical hydrogel having an average particle size in a range of from about 460 to 600 μm and having a substantially uniform particle size and comprising an epoxidated cellulose having hexadecylamine immobilized thereon in an amount of 100 to 300 μmol per gram of dry weight of said epoxidated cellulose, and water, wherein the weight ratio of said epoxidated cellulose having hexadecylamine immobilized thereon to the water is 2:8.
- 15 2. The device for body fluid purification of Claim 1, wherein said epoxidated cellulose has a molecular weight of exclusion limit for globular protein is from 1×10^4 to 60×10^4 .
- 20 3. The device for body fluid purification of Claim 1, wherein 70×10^4 to 2000×10^4 spherical particles of the hydrogel are contained in the container with water.
- 25 4. The device for body fluid purification of Claim 3, wherein the container is sealed and at least the inside thereof is sterilized.
5. The device for body fluid purification of Claim 3, wherein the water in the container is an aqueous solution of a compound having

a buffer action for pH.

6. The device for body fluid purification of Claim 5, wherein pH of the aqueous solution in the container is in a range of 5 to 8.

5

7. The device for body fluid purification of Claim 5, wherein the aqueous solution in the container is a solution containing citric acid and sodium citrate.

10

8. The device for body fluid purification of Claim 1, wherein a part or whole of the container having an inlet and an outlet comprises a shaped article of a transparent resin.

15

9. A system for body fluid purification, comprising a device for body fluid purification comprising a container having an inlet and an outlet for a fluid and a means for preventing an adsorbent from flowing out of the container, the adsorbent comprising a spherical hydrogel, the spherical hydrogel having an average particle size in a range of from about 460 to 600 μm and having a substantially uniform particle size 20 and comprising an epoxidated cellulose having hexadecylamine immobilized thereon in an amount of 100 to 300 μmol per gram of dry weight of said epoxidated cellulose, and water, wherein the weight ratio of said epoxidated cellulose having hexadecylamine immobilized thereon to the water is 2:8, said device being connected to a dialyzer for body 25 fluid.

20
25
10. The system for body fluid purification of Claim 9, wherein

the device for body fluid purification and the dialyzer for body fluid are connected in series.